

PATENT ABSTRACTS OF JAPAN

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(54) INK FOR RECORDING

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a recording ink maintaining carbon black in a suitably dispersed state and having excellent storage stability by dispersing a coloring material comprising the specific carbon black in an aqueous medium.

SOLUTION: This ink is obtained by dispersing in (B) an aqueous medium (A) a coloring material comprising carbon black wherein functional groups generated by the decomposition of a radical-generating agent comprising an azo compound of the formula: A1-N=N-A2 [A1 and A2 are each a (substituted) hydrocarbon] are chemically bound to the surface of the carbon black. The substituent to be bound to the hydrocarbon group is preferably -CH₂CH₂COOH, -CN, -OH, the hydrophilic group of an organic acid salt, etc. The carbon black includes furnace black and acetylene black. The radical-generating agent comprising the azo compound includes 2,2'-azobisisobutyramidine and azobisisobutyramidine.

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